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This book is well suited for class room work. Its technique is stated in clear and concise language, accompanied with numerous illustrations. The writer having used this for a large class is prepared to say that it is an excellent work of its kind.

Another hand-book intended for a larger circle of readers is Woodhead's⁴ small volume on Bacteria and their Products. It treats the subject in a somewhat different manner than the others. It gives considerable attention to historical matters, and treats quite fully the different systems of classification used by Ehrenberg, Cohn, Van Tiegham, Zopf, De Bary, Hueppe and Flügge. The chapter on fermentations contains a great deal on chemistry, but it is far from being a popular exposition of the question. The author has of course largely drawn from Hansen, Pasteur, and Schützenberger. The author uses the word parasite and saprophyte in a somewhat peculiar way. He speaks of the bacteria of the mouth as being parasites, contradicting a previous statement made with reference to parasitic bacteria. The work has been edited rather carelessly, the word "parasiticism" for parasitism occurs in several places as well as the word "saprophyticism."—L. H. PAMMEL.

Report on the Fish and Fisheries of the United States for 1888.⁵—This volume, an octavo of 902 pages, contains in addition to the Reports of the Commissioner, Hon. Marshall McDonald and his two assistants, 11 important papers bearing upon the Fish Industry. The results of the sea-coast inquiries conducted during the year 1888 are embodied in the reports of Mr. J. W. Collins and Lieutenant Commander S. L. Tanner. The work accomplished at the laboratory of Woods Holl, Massachusetts is reported on by Mr. J. A. Ryder. Notes on Entozoa of Marine Fishes, with descriptions of new species and the anatomy of *Thysanocephalum crispum* Linton are given by Mr. E. Linton.

Number 8 in the series of Appendices is a review of the Fresh-water Sunfishes of North America by Mr. C. H. Bollman. It is the beginning of the systematic investigation of interior waters by volunteer naturalists under the direction of Dr. D. S. Jordan. The Apodal Fishes inhabiting the waters of America and Europe are reviewed by

⁴Bacteria and their Products. The contemporary Science series, edited by Havelock Ellis, pp. 459, with 20 photo-micographs. London, Walter Scott, 24 Warwick Lane, Charles Scribner Sons, New York, 1892.

⁵U. S. Commission of Fish and Fisheries. Part XVI. Report of the commissioner for 1888. Washington, 1892.

Dr. Jordan and Mr. B. M. Davies. The work undertaken by Prof. W. O. Atwater ten years ago, viz., a comprehensive series of experiments upon the chemical composition and nutritive values of the American food-fishes, has been completed, and his report upon the subject is published as Appendix 10 to this volume. The last paper is J. W. Collins' Report upon the participation of the U. S. Fish Commission in the Centennial Exposition held at Cincinnati, Ohio, in 1888.

The numerous illustrations and maps give additional interest to this comprehensive report.